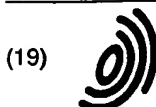


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(11) EP 0 613 792 B1

(12) EUROPEAN PATENT SPECIFICATION

- (45) Date of publication and mention of the grant of the patent:  
21.01.1998 Bulletin 1998/04
- (51) Int. Cl.<sup>6</sup>: B42D 5/02
- (21) Application number: 94301561.0
- (22) Date of filing: 04.03.1994

(54) **Business form with ID card**  
Geschäftsformular mit Identitätskarte  
Formulaire d'affaires avec carte d'identité

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| <ul style="list-style-type: none"> <li>(84) Designated Contracting States:<br/>DE FR GB NL</li> <li>(30) Priority: 04.03.1993 US 26021</li> <li>(43) Date of publication of application:<br/>07.09.1994 Bulletin 1994/36</li> <li>(73) Proprietor:<br/>MOORE BUSINESS FORMS, INC.<br/>Grand Island New York 14072-1697 (US)</li> </ul> | <ul style="list-style-type: none"> <li>(72) Inventor: Greig, Walter G.<br/>Lewiston, New York 14092 (US)</li> <li>(74) Representative:<br/>Spence, Anne et al<br/>FRY HEATH &amp; SPENCE<br/>The Old College<br/>53 High Street<br/>Horley Surrey RH6 7BN (GB)</li> <li>(56) References cited:<br/>EP-A- 0 327 754      EP-A- 0 580 280<br/>DE-A- 4 035 095      US-A- 5 129 682</li> </ul> |
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EP 0 613 792 B1

## Description

### BACKGROUND AND SUMMARY OF THE INVENTION

There are many uses for ID cards, and it is becoming increasingly popular in the manufacture of business forms to mount one or more ID cards on a form that is mailed to a recipient. While significant amounts of pre-printed, non-variable, data may be provided on the ID card and mounting form, it is also highly desirable to provide at least some variable data on the ID card and/or surrounding form.

In the construction of forms of the general type as described above, it is highly desirable to be able to use the form with both impact and non-impact printers with minimum amount of difficulties, and to be able to print the ID card with variable information on both the top and bottom faces thereof.

EP-A-0580280, having an earlier priority date than the present application but published after the priority date of the present application, discloses several forms of card assembly. Although in EP-A-0580280 a card is located in a cut out in a first sheet and is secured therein by adhesive on a backing, the backing is a continuous sheet, although preferably of transparent material, so that it completely covers the bottom face of the card and prevents printing thereon.

According to the present invention a business form, and method of production thereof, are provided which have the desirable attributes described above. In particular the business form according to the present invention has substantially uniform thickness throughout, allowing it to pass easily through impact and non-impact printers without hangups. Also, because of the uniform thickness the business form according to the invention reduces or eliminates uneven pads which develop in conventional ID carrier business forms where a card is directly affixed to (on top of) the surface of the carrier. Also, the construction and method according to the invention allow duplex printing (that is both the top and bottom faces) of the card with variable information by the output printer.

Accordingly in one aspect the present invention provides a business form comprising:

a first sheet having top and bottom faces;

means defining a first cutout in said first sheet having a substantially quadrate configuration with first length and width dimensions, and a first thickness; a card having a substantially quadrate configuration with given second length and width dimensions, slightly less than said respective first length and width dimensions, and having a thickness substantially the same as said first thickness; said card disposed in said first cutout and having top and bottom faces;

a backing overlapping a part only of said first cutout on the bottom face of said first sheet, said backing

having a top face facing said cutout, and a bottom face facing away from said cutout; and

readily releasable adhesive which will readily release said card, disposed on said top face of said backing overlapping said cutout, so that said card is held in said cutout by said readily releasable adhesive with said card top face substantially flush with said first sheet top face, but with part of the bottom face of said card uncovered by the backing so that it can receive printing.

The backing for the business form according to the invention may take one of two main configurations. One configuration is to provide the backing as first and second pieces of tape having adhesive disposed on substantially the entire top face thereof, overlapping different portions of the cutout. In particular, it is desirable to provide the first and second pieces of tape substantially parallel to each other along the length dimension of the first cutout, and for the backing to consist of the first and second pieces of tape.

An alternate construction of the backing for the business form according to the invention provides the backing as a second sheet having a second cutout therein in substantial alignment with the first cutout. The second cutout has third length and width dimensions at least one of which is significantly less than the first dimensions, so as to provide a portion of the second sheet overlapping the first sheet at the cutout with the readily releasable adhesive disposed on the overlapping portion of the second sheet. Preferably both the third length and width dimensions are less than the first dimensions so that the overlapping portion of the second sheet comprises a generally quadrate frame. The adhesive may hold the first and second sheets laminated together along the majority of the bottom and top faces thereof, respectively.

The card preferably comprises an ID card of paper or plastic, while the first sheet is typically paper, and the ID card has indicia imaged on at least the top face thereof, preferably also the bottom face.

In another aspect the present invention provides a method of producing a business form from a first sheet and backing, each having top and bottom faces, comprising the steps of:

- (a) making a first quadrate die cut opening in the first sheet, having first length and width dimensions;
- (b) applying repositionable adhesive to the top face of at least a portion of the backing;
- (c) providing the backing in juxtaposition to the first sheet so that a portion of the backing having repositionable adhesive overlaps at least part of the bottom face of the first sheet and a part only of the first die cut opening; and
- (d) inserting a quadrate card having top and bottom face, and second length and width dimensions slightly less than the first length and width dimen-

sions, in the first quadrate die cut opening, so that the card is held in the opening by the repositionable adhesive with part of the bottom face of the card uncovered.

In the practice of the method where the backing is a second sheet, there is a further step of forming a second die cut opening in the second sheet having third length and width dimensions, at least one of which is less than the first length and width dimensions; in which case step (c) is practiced by substantially aligning the centers of the first and second die cut openings. Alternatively, where the backing comprises first and second strips of tape, step (c) is practiced by placing the first and second strips of tape (typically parallel to each other) into contact with the bottom face of the first sheet so that portions of the top face of the tape pieces overlap different edges of the first die cut opening.

The card, which has substantially the same thickness as the first sheet, so that the top face of the card is flush with the top face of the sheet, and form may be fed in either continuous or cut sheet form through an impact or nonimpact printer, and both the top and bottom faces of the card may be imaged, the bottom face being imaged through a void area in the backing.

It is a primary object of the present invention to provide a simple yet effective business form bearing an ID card or the like. This and other objects of the invention will become clear from an inspection of the detailed description of the invention and from the appended claims.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

FIGURE 1 is a top plan view of the first exemplary embodiment of a business form according to the present invention, with one of two ID cards associated with the form being shown as detached for clarity of illustration;

FIGURE 2 is a bottom plan view of the form of FIGURE 1 with both cards in place;

FIGURE 3 is a cross-sectional view of the form of FIGURE 1 taken along lines 3-3 thereof;

FIGURE 4 is an exploded cross-sectional view of a second modification of the exemplary form of FIGURES 1 through 3;

FIGURE 5 is a schematic box diagram showing exemplary method steps that may be used in the production of the form of FIGURES 1 through 3, and FIGURE 6 is an alternative method schematic;

FIGURE 7 is a bottom plan view of a part of a second embodiment of business form according to the invention; and

FIGURE 8 is a cross-sectional view taken along lines 8-8 of FIGURE 7.

#### **DETAILED DESCRIPTION OF THE DRAWINGS**

FIGURE 1 illustrates an exemplary form according to the present invention by reference numeral 10. The business form 10 comprises a first sheet 11 having a top face 12 and a bottom face 13 (see FIGURE 3), which may be in sheet form, or may be in continuous form. The continuous form is schematically illustrated by an attached sheet construction of substantially the same configuration shown by reference numeral 11' in FIGURE 1, the individual sheets being connected by a perforation line 14 or the like.

Note that the sheet 11 is substantially quadrate in configuration having a leading edge 15 and a trailing edge 14, and side edges 16, 17. The sheet 11 preferably is made out of paper, and has a first thickness.

According to the present invention at least one card (in FIGURES 1 and 2 two cards are illustrated) 19 forms part of the business form 10. The card 19, which may be of paper, plastic, or other synthetic material, is adapted to be mounted within a die cutout defined by the length edges 20 and the width edges 21 in FIGURE 1, so that an open area 22 is provided therebetween. The card 19 has length 23 and width 24 dimensions which are slightly less than the dimensions 20, 21, and the card 19 preferably has substantially the same thickness as the sheet 11 so that it can nest in the cutout 22 with the top face 25 of the card 19 flush with the top face 12 of the sheet 11.

The form 10 also comprises a backing overlapping at least part of the cutout 22 on the bottom face 13 of the first sheet 11. In the embodiment illustrated in FIGURES 1 through 3, the backing comprises a second sheet 27 (see FIGURES 2 and 3) having a top face 28 (see FIGURE 3) and a bottom face 29. The sheet 27 has substantially the same configuration and dimensions as the first sheet 11, and the faces 13, 28 thereof are parallel to and immediately adjacent each other, typically being laminated to each other.

The second sheet 27 has a second die cutout formed therein, also having a rectangular configuration, the lengthwise edges of the die cut being shown by reference numerals 31 in FIGURE 2, while the widthwise edges of the cutout are shown by reference numerals 32. The die cutout formed by the edges 31, 32 is essentially in alignment with the cutout 22 (i.e., they are substantially concentric) so that the cutout 22 at the top of FIGURE 1 illustrates both the first and second cutouts on the first 11 and second 27 sheet sheets, respectively.

As seen in FIGURE 1, the second cutout is smaller than the first cutout along at least one dimension, and preferably along all four sides so that a frame configuration 34 is provided on which the bottom face 35 of the ID card 19 rests. In order to properly hold the ID card in place, readily releasable adhesive (e.g., repositionable adhesive such as sold by Moore Business Forms, Inc. of Lake Forest, Illinois under the trademark Cleantac™) 36 is disposed on the top face 28 of the second sheet 27 at

at least the frame 34. The adhesive 36 will readily release the card 19, only holding it in place with enough force so that it can be readily passed through a printer, and mailed or otherwise delivered to a recipient. When the card 19 is removed from contact with the adhesive 36, no significant adhesive residue will remain thereon.

FIGURE 3 illustrates the construction of FIGURES 1 and 2 in cross section. In this particular embodiment the adhesive 36 is disposed over a majority of the top face 28 of the second sheet 27 and laminates the sheets 11, 27 together in addition to releasably holding the card 19 in place. However, if desired, the adhesive 36 need only be provided where it will be engaging the card, and the sheets may be held together in other ways, as by permanent adhesive, static forces, deformations of the substrates forming the sheets, etc. Also, it may be necessary to provide a release coating on the bottom face 13 of the sheet 11 at the area where the die cut 22 will be formed so as to not remove the adhesive 36 from the frame portion 34 when the cutout area of the sheet 11 is removed. Such an embodiment is illustrated schematically in FIGURE 4.

In FIGURE 4 all the components comparable to those in FIGURES 1 through 3 are shown by the same reference numeral only followed by a "'". In FIGURE 4, the sheet 11' of business form 10' has a silicone or other release coating 40 spot applied to the portion thereof where the die cut 22' is to be formed. In this embodiment also, the adhesive 36' is not formed over the entire top face 28' of the second sheet 27', but rather only at the area immediately adjacent the cutout edges 31' 32'. After the sheets 11', 27' of the FIGURE 4 embodiment are moved together, the first sheet 11' is die cut, and the silicone coating 40 allows the cutout portion at 22' to be readily removed without removing the adhesive 36' with it.

There are a number of different ways in which the business form 10, 10' described above may be constructed. Two exemplary manners are illustrated in FIGURES 5 and 6. FIGURE 5 relates to the FIGURE 4 construction, while FIGURE 6 primarily relates to the FIGURES 1 through 3 construction, although the various order of the steps may be changed.

In the FIGURE 5 embodiment, a release coat (such as the coat 40) is applied to the bottom face of the first sheet as indicated by box 41, then both parts (both sheets) are die cut as illustrated at 42. The repositional adhesive 36, 36' is provided in either spot or full face coating, either press applied, applied by a finishing machine, or by a coater, as indicated schematically at 43, and then the parts are laminated together as indicated at 44. The ID card 19 is then placed in the cutout 22, 22' as illustrated at 45. Then the entire form 10, 10' is passed, either in sheet form or in continuous form, through a printer -- as indicated at stage 46 -- where variable indicia is imaged or printed on just the top face 25, or both the top face and bottom face 25, 35, of the ID card 19, and then the business form 10, 10' is mailed

as indicated by box 47.

In the embodiment of FIGURE 6, the particular steps and their order are slightly different. In the FIGURE 6 embodiment first the repositional adhesive is applied as indicated at box 48, and then the parts of the form are laminated together as indicated at 49. Then both parts 1 and 2 are die cut at the same time as indicated by box 50, and then the ID card is placed in the part 1 die cutout 22 as indicated at box 51 in FIGURE 6. Then the variable printing and mailing steps are the same as indicated in FIGURE 5.

FIGURES 1 and 2 also show the printing that is applied at stage 46. The printing applied to the top face 25 may be as illustrated at 53 in FIGURE 1, while the duplex (backside) printing is illustrated at 54 in FIGURE 2.

FIGURES 7 and 8 illustrate a second embodiment according to the present invention. In the second embodiment the construction of the backing is different. In the embodiment of FIGURES 7 and 8, a release coat like the release coat 40 illustrated in FIGURE 4 is not necessary, since only one sheet needs to be die cut. Also, because of the particular construction of the backing the costs for paper adhesive may be substantially reduced and also the areas on the face of the coupon, or the like, since they do not have the double thickness.

In the FIGURES 7 and 8 embodiment components comparable to those in the FIGURES 1 through 3 embodiment are shown by the same reference numeral only preceded by a "1".

In the construction of FIGURES 7 and 8, the backing comprises first and second pieces (strips) of tape illustrated schematically at reference numerals 60, 61 in FIGURE 7, only the strip 61 being seen in FIGURE 8. Each strip 60, 61 comprises a substrate 62 with readily releasable (e.g., repositional) adhesive 63 on the bottom face thereof. The strips 60, 61 are applied so that they overlap both longitudinal edges 120 (and a small part of the transverse edges 121) of the cutout 122 formed in the first sheet 111, so that the adhesive 63 thereon will engage the bottom face 135 of the card 119 and hold it in place. The adhesive 63 also holds the substrate 62 of the pieces of tape 60, 61 to other portions of the bottom face 113 of the first sheet 111.

While the form 110 of FIGURES 7 and 8 does have some nonuniformity of thickness, it is not substantial enough -- because of the relatively thin nature of the strips of tape 60, 61 -- to significantly adversely affect printing, and because of the small size of the strips 60, 61 compared to the FIGURES 1 through 3 embodiment, the cost can be significantly less. Also, indicia like the indicia 65 illustrated in FIGURE 1, if provided on the top face 112 of the first sheet 111, can form a reply element, commercial coupon, or the like, and perforations or other like lines of weakness (not shown) can be formed in the sheet 111 to facilitate detachment of a portion thereof with the indicia (e.g., 65) thereon. The form 110 of FIGURES 7 and 8 is used in the same manner as the

form 10, e.g., being passed through a variable printer, etc.

It will thus be seen that according to the present invention an advantageous business form mounting an ID card or the like, and a method of manufacture and utilization thereof, have been provided. While the invention has been herein shown and described in what is presently conceived to be the most practical and preferred embodiment thereof, it will be apparent to those of ordinary skill in the art that many modifications may be made within the scope of the invention, which scope is to be accorded the broadest interpretation of the appended claim so as to encompass all equivalent structures and procedures.

#### Claims

##### 1. A business form (10) comprising:

a first sheet (11) having top and bottom faces (12, 13);

means defining a first cutout (22) in said first sheet having a substantially quadrate configuration with first length and width dimensions (20, 21), and a first thickness;

a card (19) having a substantially quadrate configuration with given second length and width dimensions (23, 24), slightly less than said respective first length and width dimensions, and having a thickness substantially the same as said first thickness;

said card disposed in said first cutout and having top and bottom faces (25, 35);

a backing (27; 60, 61) overlapping a part only of said first cutout on the bottom face of said first sheet, said backing having a top face (28) facing said cutout, and a bottom face (29) facing away from said cutout; and

readily releasable adhesive (36), which will readily release said card, disposed on said top face (28) of said backing overlapping said cutout, so that said card is held in said cutout by said readily releasable adhesive with said card top face (25) substantially flush with said first sheet top face (12), but with parts of the bottom face of said card uncovered by the backing so that it can receive printing.

2. A business form as recited in claim 1 characterised in that said backing includes or consists solely of first and second, preferably parallel, pieces of tape (60, 61) having adhesive (63) disposed on substantially the entire top face thereof, and overlapping different portions of said first cutout.

3. A business form as recited in claim 1 characterised in that said backing comprises a second sheet (27), said second sheet having a second cutout therein

in substantial alignment with said first cutout, said second cutout having third length and width dimensions (31, 32) at least one of which is significantly less than said first dimensions (20, 21), so as to provide a portion (34) of said second sheet overlapping said first sheet at said first cutout; said readily releasable adhesive (36) disposed on said overlapping portion of said second sheet.

4. A business form as recited in claim 3 characterised in that both said third length and width dimensions (31, 32) are less than said first dimensions (20, 21), so that said overlapping portion of said second sheet comprises a generally quadrate frame (34).

5. A business form as recited in claim 3 or claim 4 characterised in that said adhesive (36) holds said first and second sheets (11, 27) laminated together along the majority of said bottom and top faces thereof, respectively.

6. A business form as recited in any of claims 1 to 5 characterised in that said card comprises an ID card having indicia imaged on said top face or both the top and bottom faces.

7. A business form as recited in any of claims 1 to 6 characterised in that said first sheet (11) is paper, and said card (19) consists essentially of paper or plastic.

8. A method of producing a business form from a first sheet and backing, each having top and bottom faces, comprising the steps of:

(a) making a first quadrate die cut opening in the first sheet, having first length and width dimensions;

(b) applying repositionable adhesive to the top face of at least a portion of the backing;

(c) providing the backing in juxtaposition to the first sheet so that a portion of the backing having repositionable adhesive overlaps at least part of the bottom face of the first sheet and a part only of the first die cut opening; and

(d) inserting a quadrate card having top and bottom face, and second length and width dimensions slightly less than the first length and width dimensions, in the first quadrate die cut opening, so that the card is held in the opening by the repositionable adhesive with part of the bottom face of the card uncovered.

9. A method as recited in claim 8 characterised in that the backing is a second sheet, and comprising the further step of forming a second die cut opening in the second sheet having third length and width dimensions one or both of which is/are less than the

corresponding first length and width dimension; and wherein step (c) is practiced by substantially aligning the centers of the first and second die cut openings.

10. A method as recited in claim 8 characterised in that the backing comprises first and second strips of tape; and wherein step (c) is practiced by placing the first and second strips of tape, preferably parallel to one another, into contact with the bottom face of the first sheet so that portions of the top face of the tape pieces overlaps different edges of the first die cut opening.

11. A method as recited in any of claims 8 to 11 characterised in that the card has approximately the same thickness as the first sheet; and wherein step (d) is practiced so as to position the card so that a top face thereof is substantially flush with the top face of the first sheet.

#### Patentansprüche

1. Geschäftsformular (10), das folgendes umfaßt:

ein erstes Blatt (11) mit einer oberen und einer unteren Fläche (12, 13);  
 einen ersten Ausschnitt (22) mit ersten Längen- und Breitenabmessungen (20, 21) und einer ersten Dicke, der eine im wesentlichen quadratische Konfiguration aufweist, in dem ersten Blatt definierendes Mittel;  
 eine Karte (19) mit einer im wesentlichen quadratischen Konfiguration, die gegebene zweite Längen- und Breitenabmessungen (23, 24) aufweist, die etwas kleiner sind als die jeweiligen ersten Längen- und Breitenabmessungen, und mit einer Dicke, die im wesentlichen gleich der ersten Dicke ist;

wobei die Karte in dem ersten Ausschnitt angeordnet ist und eine obere und untere Fläche (25, 35) aufweist;  
 einen Träger (27; 60, 61), der nur einen Teil des ersten Ausschnitts auf der unteren Fläche des ersten Blatts überlappt, wobei der Träger eine zu dem Ausschnitt weisende obere Fläche (28) und eine von dem Ausschnitt weg weisende untere Fläche (29) aufweist; und  
 leicht ablösbaren Klebstoff (36), der die Karte leicht freigibt und auf der oberen Fläche (28) des den Ausschnitt überlappenden Trägers aufgebracht ist, so daß die Karte durch den leicht ablösbaren Klebstoff in dem Ausschnitt gehalten wird, wobei die obere Fläche (25) der Karte im wesentlichen in gleicher Ebene mit der oberen Fläche (12) des ersten Blattes liegt, aber ein Teil der unteren Fläche der Karte nicht durch den Träger bedeckt wird, so daß er

bedruckt werden kann.

2. Geschäftsformular nach Anspruch 1, dadurch gekennzeichnet, daß der Träger lediglich ein erstes und ein zweites Stück Band (60, 61), die vorzugsweise parallel zueinander sind, enthält oder aus diesen besteht, wobei im wesentlichen über die gesamte obere Fläche der Bandstücke Klebstoff (63) aufgebracht ist und sie verschiedene Teile des ersten Ausschnitts überlappen.

3. Geschäftsformular nach Anspruch 1, dadurch gekennzeichnet, daß der Träger ein zweites Blatt (27) umfaßt, wobei das zweite Blatt einen zweiten Ausschnitt enthält, der im wesentlichen auf den ersten Ausschnitt ausgerichtet ist, und wobei der zweite Ausschnitt dritte Längen- und Breitenabmessungen (31, 32) aufweist, von denen mindestens eine bedeutend weniger beträgt als die ersten Abmessungen (20, 21), damit ein Teil (34) des zweiten Blatts das erste Blatt an dem ersten Ausschnitt überlappt; wobei der leicht ablösbare Klebstoff (36) auf dem überlappenden Teil des zweiten Blatts aufgebracht ist.

4. Geschäftsformular nach Anspruch 3, dadurch gekennzeichnet, daß sowohl die dritten Längen- als auch Breitenabmessungen (31, 32) kleiner sind als die ersten Abmessungen (20, 21), so daß der überlappende Teil des zweiten Blattes einen allgemein quadratischen Rahmen (34) umfaßt.

5. Geschäftsformular nach Anspruch 3 oder 4, dadurch gekennzeichnet, daß der Klebstoff (36) das erste und zweite Blatt (11, 27) entlang dem Großteil deren unterer bzw. oberer Fläche zusammengefügt hält.

6. Geschäftsformular nach einem der Ansprüche 1 bis 5, dadurch gekennzeichnet, daß die Karte eine Identitätskarte umfaßt, auf deren oberer Fläche oder auf deren oberer und unterer Fläche Angaben abgebildet sind.

7. Geschäftsformular nach einem der Ansprüche 1 bis 6, dadurch gekennzeichnet, daß das erste Blatt (11) aus Papier und die Karte (19) im wesentlichen aus Papier oder Kunststoff besteht.

8. Verfahren zur Herstellung eines Geschäftsformulars aus einem ersten Blatt und einem Träger, die jeweils eine obere und untere Fläche aufweisen, mit den folgenden Schritten:

- (a) Herstellen einer ersten quadratischen Ausstanzöffnung in dem ersten Blatt mit einer ersten Längen- und Breitenabmessung;
- (b) Aufbringen von wiederlösbarem Klebstoff

auf die obere Fläche zumindest eines Teils des Trägers;

(c) Vorsehen des Trägers neben dem ersten Blatt, so daß ein Teil des Trägers, der wiederlös- 5  
baren Klebstoff aufweist, zumindest einen Teil der unteren Fläche des ersten Blatts und nur einen Teil der ersten Ausstanzöffnung überlappt; und

(d) Einführen einer quadratischen Karte mit 10  
einer oberen und unteren Fläche und zweiten Längen- und Breitenabmessungen, die etwas kleiner sind als die ersten Längen- und Breitenabmessungen, in die erste quadratische Ausstanzöffnung, so daß die Karte durch den 15  
wiederlösbaren Klebstoff so in der Öffnung gehalten wird, daß ein Teil der unteren Fläche der Karte unbedeckt ist.

9. Verfahren nach Anspruch 8, dadurch gekennzeichnet, daß der Träger ein zweites Blatt ist, und mit 20  
dem weiteren Schritt des Ausbildens einer zweiten Ausstanzöffnung in dem zweiten Blatt mit dritten Längen- und Breitenabmessungen, von denen eine oder beide kleiner ist/sind als die entsprechende 25  
erste Längen- und Breitenabmessung; und wobei Schritt (c) dadurch ausgeführt wird, daß die Mittelpunkte der ersten und der zweiten Ausstanzöffnung im wesentlichen aufeinander ausgerichtet werden.

10. Verfahren nach Anspruch 8, dadurch gekennzeichnet, daß der Träger einen ersten und zweiten Band- 30  
streifen umfaßt; und wobei Schritt (c) dadurch ausgeführt wird, daß der erste und der zweite Bandstreifen vorzugsweise parallel zueinander so in Kontakt mit der Bodenfläche des ersten Blatts 35  
angeordnet werden, daß Teile der oberen Fläche der Bandstücke verschiedene Ränder der ersten Ausstanzöffnung überlappen.

11. Verfahren nach einem der Ansprüche 8 bis 11, 40  
dadurch gekennzeichnet, daß die Karte ungefähr die gleiche Dicke aufweist wie das erste Blatt; und wobei Schritt (d) so ausgeführt wird, daß die Karte so positioniert wird, daß eine obere Fläche davon 45  
im wesentlichen in der gleichen Ebene mit der oberen Fläche des ersten Blatts liegt.

#### Revendications

1. Formulaire d'affaires (10) comprenant : 50

une première feuille (11) ayant des faces supérieure et inférieure (12, 13);

un moyen définissant un premier découpage 55  
(22) dans ladite première feuille ayant une configuration substantiellement rectangulaire avec des premières dimensions en longueur et en largeur (20, 21) et une première épaisseur;

une carte (19) ayant une configuration substantiellement rectangulaire avec des deuxièmes dimensions données en longueur et en largeur (23, 24), légèrement inférieures auxdi-  
tes premières dimensions respectives en longueur et en largeur, et ayant une épaisseur substantiellement égale à ladite première épaisseur;

ladite carte étant disposée dans ledit premier découpage et ayant des faces supérieure et inférieure (25, 35);

un support (27; 60, 61) recouvrant une partie uniquement dudit premier découpage sur la face inférieure de ladite première feuille, ledit support ayant une face supérieure (28) faisant face audit découpage, et une face inférieure (29) tournée du côté opposé audit découpage; 10  
et

de l'adhésif facilement détachable (36), qui libérera facilement ladite carte, disposé sur ladite face supérieure (28) dudit support recouvrant ledit découpage, de sorte que ladite carte soit maintenue dans ledit découpage par ledit adhésif facilement détachable avec la face supérieure (25) de ladite carte substantielle- 15  
ment alignée avec la surface supérieure (12) de ladite première feuille, mais avec des parties de la face inférieure de ladite carte non recouvertes par le support de sorte qu'elle puisse être imprimée.

2. Formulaire d'affaires selon la revendication 1, caractérisé en ce que ledit support comporte ou se compose uniquement de premier et deuxième mor-  
ceaux de ruban (60, 61) de préférence parallèles, ayant de l'adhésif (63) disposé sur substantielle-  
ment toute leur face supérieure, et recouvrant différentes portions dudit premier découpage.

3. Formulaire d'affaires selon la revendication 1, caractérisé en ce que ledit support comprend une deuxième feuille (27), ladite deuxième feuille comprenant un deuxième découpage substantiellement aligné avec ledit premier découpage, ledit deuxième découpage ayant des troisièmes dimen-  
sions en longueur et en largeur (31, 32), l'une des-  
quelles au moins étant considérablement inférieure auxdites premières dimensions (20, 21), de manière à fournir une portion (34) de ladite deuxième feuille recouvrant ladite première feuille au niveau dudit premier découpage; ledit adhésif facilement détachable (36) étant disposé sur ladite portion de recouvrement de ladite deuxième feuille.

4. Formulaire d'affaires selon la revendication 3, caractérisé en ce que lesdites troisièmes dimen-  
sions à la fois en longueur et en largeur (31, 32) sont inférieures auxdites premières dimensions

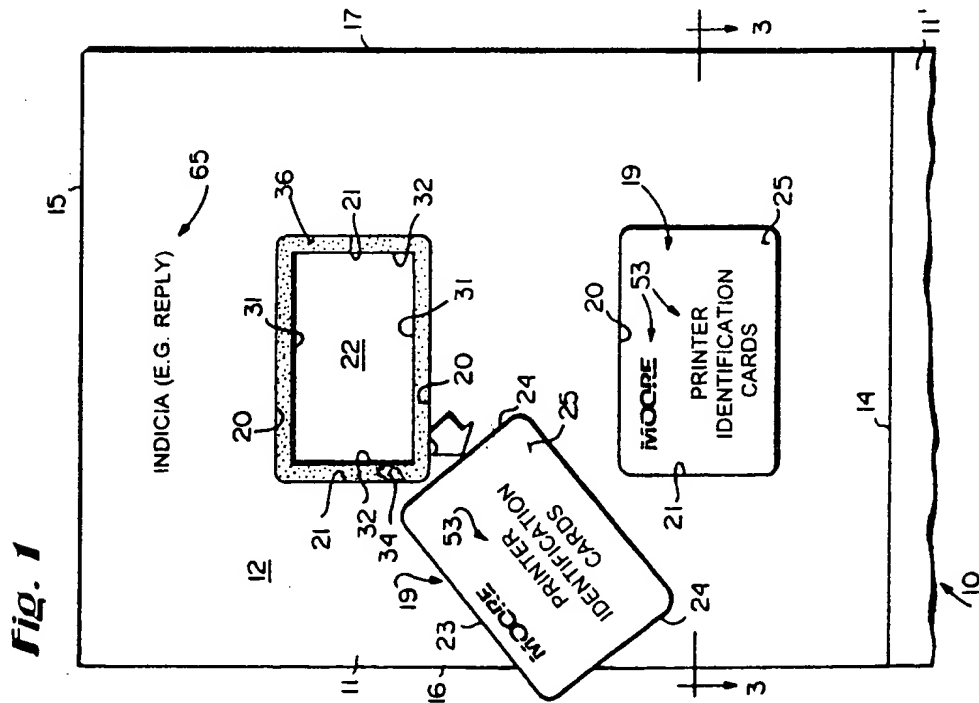
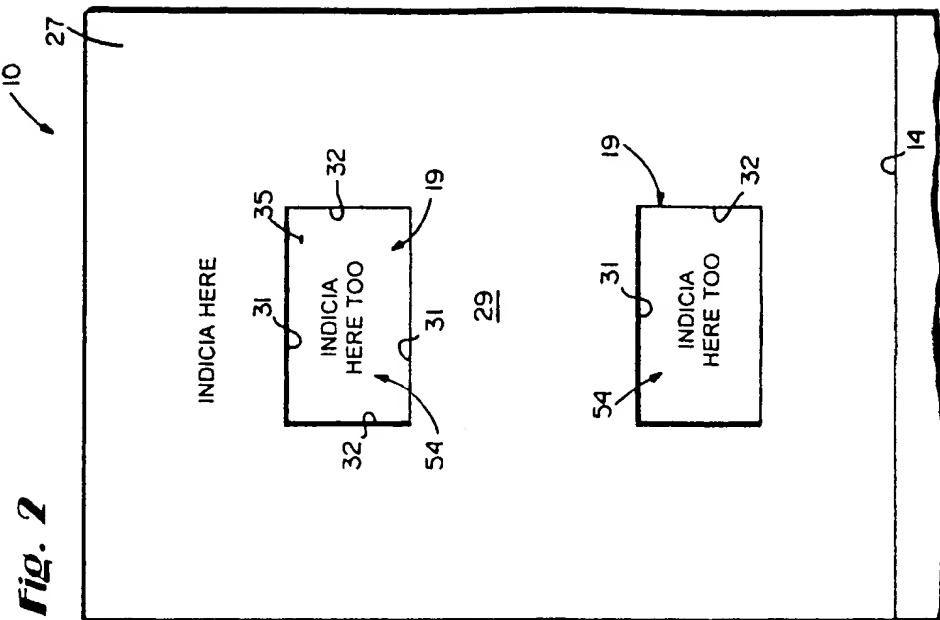
(20, 21), de sorte que la portion de recouvrement de ladite deuxième feuille comprenne un cadre généralement rectangulaire (34).

5. Formulaire d'affaires selon la revendication 3 ou la revendication 4, caractérisé en ce que ledit adhésif (36) retient lesdites première et deuxième feuilles (11, 27) de manière stratifiée ensemble le long de la majorité desdites faces inférieure et supérieure de celles-ci respectivement. 5 10
6. Formulaire d'affaires selon l'une quelconque des revendications 1 à 5, caractérisé en ce que ladite carte comprend une carte d'identité ayant des inscriptions reproduites sur ladite face supérieure ou à la fois sur la face supérieure et la face inférieure. 15
7. Formulaire d'affaires selon l'une quelconque des revendications 1 à 6, caractérisé en ce que ladite première feuille (11) est du papier, et ladite carte (19) se compose essentiellement de papier ou de plastique. 20
8. Procédé de production d'un formulaire d'affaires à partir d'une première feuille et d'un support, chacun ayant des faces supérieure et inférieure, comprenant les étapes consistant à : 25
  - (a) réaliser, par découpage à l'emporte-pièce dans la première feuille, une première ouverture rectangulaire ayant des premières dimensions en longueur et en largeur; 30
  - (b) appliquer de l'adhésif repositionnable sur la face supérieure d'au moins une portion du support; 35
  - (c) juxtaposer le support à la première feuille de sorte qu'une portion du support ayant de l'adhésif repositionnable recouvre au moins une partie de la face inférieure de la première feuille et une partie uniquement de la première ouverture découpée à l'emporte-pièce; et 40
  - (d) insérer une carte rectangulaire ayant une face supérieure et une face inférieure, et des deuxièmes dimensions en longueur et en largeur légèrement inférieures aux premières dimensions en longueur et en largeur, dans la première ouverture rectangulaire découpée à l'emporte-pièce, de sorte que la carte soit maintenue dans l'ouverture par l'adhésif repositionnable avec une partie de la face inférieure de la carte n'étant pas recouverte. 45 50
9. Procédé selon la revendication 8, caractérisé en ce que le support est une deuxième feuille, et comprenant l'étape supplémentaire consistant à former une deuxième ouverture par découpage à l'emporte-pièce dans la deuxième feuille ayant des troisièmes dimensions en longueur et en largeur 55

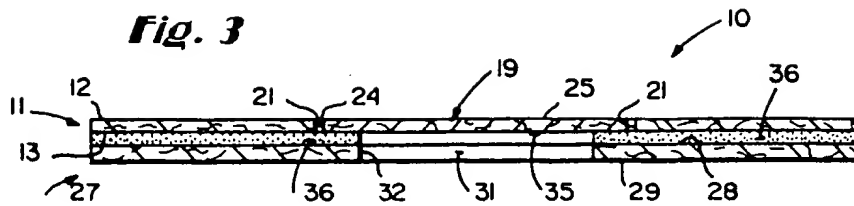
dont l'une ou les deux est/sont inférieure(s) à la première dimension correspondante en longueur et en largeur; et dans lequel l'étape (c) est mise en oeuvre en alignant substantiellement les centres des première et deuxième ouvertures découpées à l'emporte-pièce.

10. Procédé selon la revendication 8, caractérisé en ce que le support comprend des première et deuxième bandes de ruban; et dans lequel l'étape (c) est mise en oeuvre en plaçant les première et deuxième bandes de ruban, de préférence parallèles l'une à l'autre, en contact avec la face inférieure de la première feuille de sorte que des portions de la face supérieure des morceaux de ruban recouvrent différents bords de la première ouverture découpée à l'emporte-pièce.
11. Procédé selon l'une quelconque des revendications 8 à 11, caractérisé en ce que la carte a environ la même épaisseur que la première feuille; et dans lequel l'étape (d) est mise en oeuvre de manière à positionner la carte de telle sorte qu'une face supérieure de celle-ci soit substantiellement alignée avec la face supérieure de la première feuille.

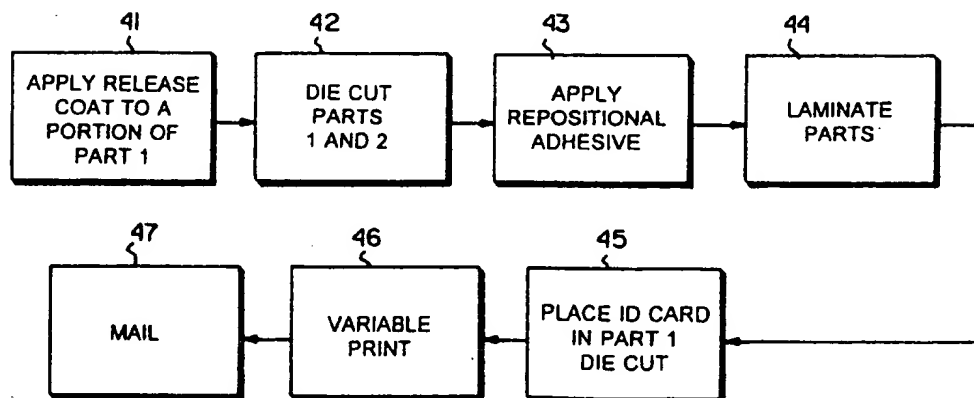
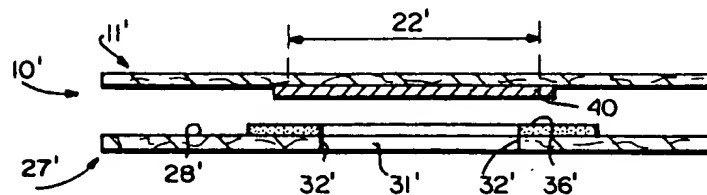




**Fig. 3**

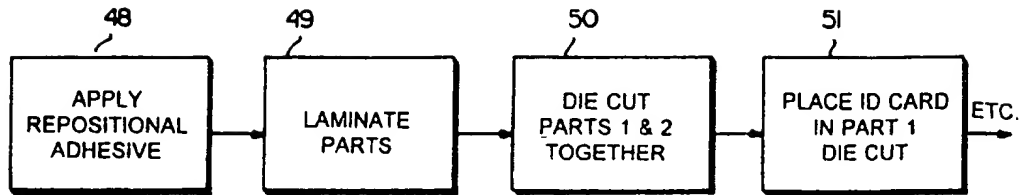


**Fig. 4**

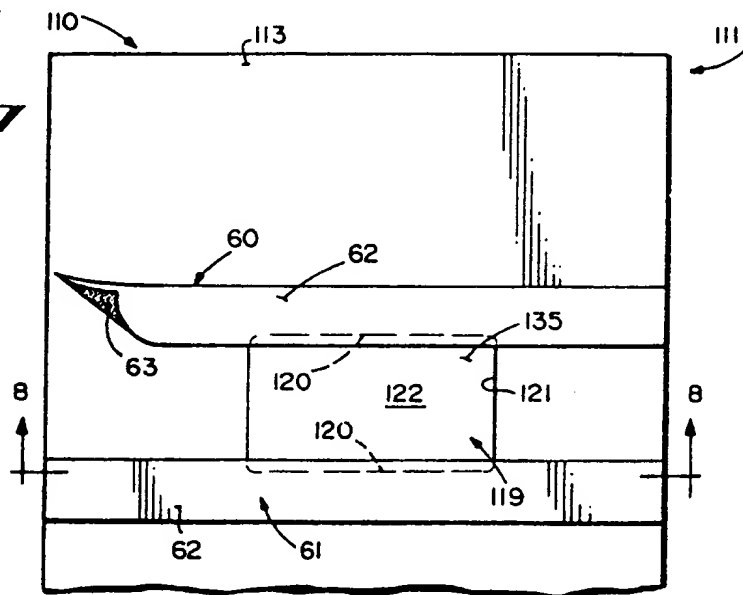


**Fig. 5**

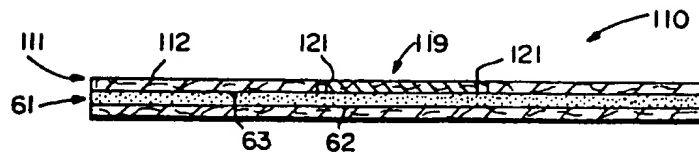
**Fig. 6**



**Fig. 7**



**Fig. 8**





⑪ Publication number : **0 613 792 A1**

⑫ **EUROPEAN PATENT APPLICATION**

⑳ Application number : **94301561.0**

⑤ Int. Cl.<sup>5</sup> : **B42D 5/02**

㉔ Date of filing : **04.03.94**

㉓ Priority : **04.03.93 US 26021**

④ Date of publication of application :  
**07.09.94 Bulletin 94/36**

⑧ Designated Contracting States :  
**DE FR GB NL**

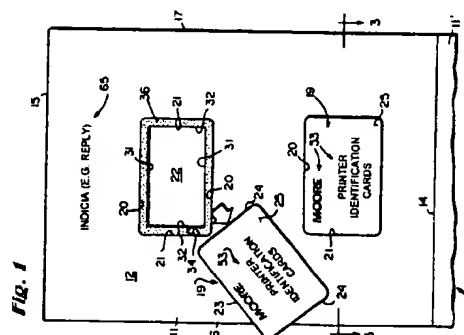
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⑤ Business form with ID card.

⑦ A business form (10) has a self-contained ID card (19) which is mounted in such a way that the form has uniform thickness and can readily pass through an impact or non-impact printer, and indicia can be applied to both the top (25) and bottom (35) faces of the ID card by the printer. A first sheet (11) has a first cutout (22) and a first thickness, and an ID card (19) of the same shape and slightly less dimensions, and about the same thickness, is disposed within the cutout. The card is held in the cutout by a backing (27 ; 60, 61) overlapping at least part of the first cutout with readily releasable adhesive 936) disposed on the top face (28) of the backing overlapping the cutout and engaging the bottom of the card. The backing may be first and second parallel pieces of tape (60, 61), or it may be second sheet (27) with a second die cut out (31) in substantial alignment with the first cutout but having lesser dimensions.



EP 0 613 792 A1

There are many uses for ID cards, and it is becoming increasingly popular in the manufacture of business forms to mount one or more ID cards on a form that is mailed to a recipient. While significant amounts of pre-printed, non-variable, data may be provided on the ID card and mounting form, it is also highly desirable to provide at least some variable data on the ID card and/or surrounding form.

In the construction of forms of the general type as described above, it is highly desirable to be able to use the form with both impact and non-impact printers with minimum amount of difficulties, and to be able to print the ID card with variable information on both the top and bottom faces thereof.

According to the present invention a business form, and method of production thereof, are provided which have the desirable attributes described above. In particular the business form according to the present invention has substantially uniform thickness throughout, allowing it to pass easily through impact and non-impact printers without hangups. Also, because of the uniform thickness the business form according to the invention reduces or eliminates uneven pads which develop in conventional ID carrier business forms where a card is directly affixed to (on top of) the surface of the carrier. Also, the construction and method according to the invention allow duplex printing (that is both the top and bottom faces) of the card with variable information by the output printer.

According to one aspect of the present invention a business form is provided comprising the following elements: A first sheet having top and bottom faces. Means defining a first cutout in the first sheet having a substantially quadrate configuration with first length and width dimensions, and a first thickness. A card having a substantially quadrate configuration with given second length and width dimensions, both slightly less than the first length and width dimensions, and having a thickness substantially the same as the first thickness. The card disposed in the first cutout and having top and bottom faces. A backing overlapping at least part of the first cutout on the bottom face of the first sheet, the backing having a top face facing the cutout, and a bottom face facing away from the cutout. And, readily releasable adhesive, which will readily release the card, disposed on the top face of the backing overlapping the cutout, so that the card is held in the cutout by the readily releasable adhesive with the card top face substantially flush with the first sheet top face.

The backing for the business form according to the invention may take one of two main configurations. One configuration is to provide the backing as first and second pieces of tape having adhesive disposed on substantially the entire top face thereof, overlapping different portions of the cutout. In particular, it is desirable to provide the first and second pieces of tape substantially parallel to each other

along the length dimension of the first cutout, and for the backing to consist of the first and second pieces of tape.

An alternate construction of the backing for the business form according to the invention provides the backing as a second sheet having a second cutout therein in substantial alignment with the first cutout. The second cutout has third length and width dimensions at least one of which is significantly less than the first dimensions, so as to provide a portion of the second sheet overlapping the first sheet at the cutout with the readily releasable adhesive disposed on the overlapping portion of the second sheet. Preferably both the third length and width dimensions are less than the first dimensions so that the overlapping portion of the second sheet comprises a generally quadrate frame. The adhesive may hold the first and second sheets laminated together along the majority of the bottom and top faces thereof, respectively.

The card preferably comprises an ID card of paper or plastic, while the first sheet is typically paper, and the ID card has indicia imaged on at least the top face thereof, preferably also the bottom face.

According to another aspect of the present invention a method of producing a business form from a first sheet and backing, each having top and bottom faces, is provided. The method comprises the following steps: (a) Making a first quadrate die cut opening in the first sheet, having first length and width dimensions. (b) Applying repositional adhesive to the top face of at least a portion of the backing. (c) Providing the backing in juxtaposition to the first sheet so that a portion of the backing having repositional adhesive overlaps the bottom face of the first sheet at the first die cut opening. And (d) inserting a quadrate card having top and bottom faces, and second length and width dimensions slightly less than the first length and width dimensions, in the first quadrate die cut opening, so that the card is held in the opening by the repositional adhesive.

In the practice of the method where the backing is a second sheet, there is a further step of forming a second die cut opening in the second sheet having third length and width dimensions, at least one of which is less than the first length and width dimensions; in which case step (c) is practiced by substantially aligning the centers of the first and second die cut openings. Alternatively, where the backing comprises first and second strips of tape, step (c) is practiced by placing the first and second strips of tape (typically parallel to each other) into contact with the bottom face of the first sheet so that portions of the top face of the tape pieces overlap different edges of the first die cut opening.

The card, which has substantially the same thickness as the first sheet, so that the top face of the card is flush with the top face of the sheet, and form may be fed in either continuous or cut sheet form through

an impact or nonimpact printer, and both the top and bottom faces of the card may be imaged, the bottom face being imaged through a void area in the backing.

It is a primary object of the present invention to provide a simple yet effective business form bearing an ID card or the like. This and other objects of the invention will become clear from an inspection of the detailed description of the invention and from the appended claims.

#### BRIEF DESCRIPTION OF THE DRAWINGS

FIGURE 1 is a top plan view of the first exemplary embodiment of a business form according to the present invention, with one of two ID cards associated with the form being shown as detached for clarity of illustration;

FIGURE 2 is a bottom plan view of the form of FIGURE 1 with both cards in place;

FIGURE 3 is a cross-sectional view of the form of FIGURE 1 taken along lines 3-3 thereof;

FIGURE 4 is an exploded cross-sectional view of a second modification of the exemplary form of FIGURES 1 through 3;

FIGURE 5 is a schematic box diagram showing exemplary method steps that may be used in the production of the form of FIGURES 1 through 3, and FIGURE 6 is an alternative method schematic;

FIGURE 7 is a bottom plan view of a part of a second embodiment of business form according to the invention; and

FIGURE 8 is a cross-sectional view taken along lines 8-8 of FIGURE 7.

#### DETAILED DESCRIPTION OF THE DRAWINGS

FIGURE 1 illustrates an exemplary form according to the present invention by reference numeral 10. The business form 10 comprises a first sheet 11 having a top face 12 and a bottom face 13 (see FIGURE 3), which may be in sheet form, or may be in continuous form. The continuous form is schematically illustrated by an attached sheet construction of substantially the same configuration shown by reference numeral 11' in FIGURE 1, the individual sheets being connected by a perforation line 14 or the like.

Note that the sheet 11 is substantially quadrate in configuration having a leading edge 15 and a trailing edge 14, and side edges 16, 17. The sheet 11 preferably is made out of paper, and has a first thickness.

According to the present invention at least one card (in FIGURES 1 and 2 two cards are illustrated) 19 forms part of the business form 10. The card 19, which may be of paper, plastic, or other synthetic material, is adapted to be mounted within a die cutout defined by the length edges 20 and the width edges 21 in FIGURE 1, so that an open area 22 is provided

therebetween. The card 19 has length 23 and width 24 dimensions which are slightly less than the dimensions 20, 21, and the card 19 preferably has substantially the same thickness as the sheet 11 so that it can nest in the cutout 22 with the top face 25 of the card 19 flush with the top face 12 of the sheet 11.

The form 10 also comprises a backing overlapping at least part of the cutout 22 on the bottom face 13 of the first sheet 11. In the embodiment illustrated in FIGURES 1 through 3, the backing comprises a second sheet 27 (see FIGURES 2 and 3) having a top face 28 (see FIGURE 3) and a bottom face 29. The sheet 27 has substantially the same configuration and dimensions as the first sheet 11, and the faces 13, 28 thereof are parallel to and immediately adjacent each other, typically being laminated to each other.

The second sheet 27 has a second die cutout formed therein, also having a rectangular configuration, the lengthwise edges of the die cut being shown by reference numerals 31 in FIGURE 2, while the widthwise edges of the cutout are shown by reference numerals 32. The die cutout formed by the edges 31, 32 is essentially in alignment with the cutout 22 (i.e., they are substantially concentric) so that the cutout 22 at the top of FIGURE 1 illustrates both the first and second cutouts on the first 11 and second 27 sheet sheets, respectively.

As seen in FIGURE 1, the second cutout is smaller than the first cutout along at least one dimension, and preferably along all four sides so that a frame configuration 34 is provided on which the bottom face 35 of the ID card 19 rests. In order to properly hold the ID card in place, readily releasable adhesive (e.g., repositional adhesive such as sold by Moore Business Forms, Inc. of Lake Forest, Illinois under the trademark Cleantac™) 36 is disposed on the top face 28 of the second sheet 27 at at least the frame 34. The adhesive 36 will readily release the card 19, only holding it in place with enough force so that it can be readily passed through a printer, and mailed or otherwise delivered to a recipient. When the card 19 is removed from contact with the adhesive 36, no significant adhesive residue will remain thereon.

FIGURE 3 illustrates the construction of FIGURES 1 and 2 in cross section. In this particular embodiment the adhesive 36 is disposed over a majority of the top face 28 of the second sheet 27 and laminates the sheets 11, 27 together in addition to releasably holding the card 19 in place. However, if desired, the adhesive 36 need only be provided where it will be engaging the card, and the sheets may be held together in other ways, as by permanent adhesive, static forces, deformations of the substrates forming the sheets, etc. Also, it may be necessary to provide a release coating on the bottom face 13 of the sheet 11 at the area where the die cut 22 will be formed so as to not remove the adhesive 36 from the frame portion

34 when the cutout area of the sheet 11 is removed. Such an embodiment is illustrated schematically in FIGURE 4.

In FIGURE 4 all the components comparable to those in FIGURES 1 through 3 are shown by the same reference numeral only followed by a "'". In FIGURE 4, the sheet 11' of business form 10' has a silicone or other release coating 40 spot applied to the portion thereof where the die cut 22' is to be formed. In this embodiment also, the adhesive 36' is not formed over the entire top face 28' of the second sheet 27', but rather only at the area immediately adjacent the cutout edges 31' 32'. After the sheets 11', 27' of the FIGURE 4 embodiment are moved together, the first sheet 11' is die cut, and the silicone coating 40 allows the cutout portion at 22' to be readily removed without removing the adhesive 36' with it.

There are a number of different ways in which the business form 10, 10' described above may be constructed. Two exemplary manners are illustrated in FIGURES 5 and 6. FIGURE 5 relates to the FIGURE 4 construction, while FIGURE 6 primarily relates to the FIGURES 1 through 3 construction, although the various order of the steps may be changed.

In the FIGURE 5 embodiment, a release coat (such as the coat 40) is applied to the bottom face of the first sheet as indicated by box 41, then both parts (both sheets) are die cut as illustrated at 42. The repositionable adhesive 36, 36' is provided in either spot or full face coating, either press applied, applied by a finishing machine, or by a coater, as indicated schematically at 43, and then the parts are laminated together as indicated at 44. The ID card 19 is then placed in the cutout 22, 22' as illustrated at 45. Then the entire form 10, 10' is passed, either in sheet form or in continuous form, through a printer -- as indicated at stage 46 -- where variable indicia is imaged or printed on just the top face 25, or both the top face and bottom face 25, 35, of the ID card 19, and then the business form 10, 10' is mailed as indicated by box 47.

In the embodiment of FIGURE 6, the particular steps and their order are slightly different. In the FIGURE 6 embodiment first the repositionable adhesive is applied as indicated at box 48, and then the parts of the form are laminated together as indicated at 49. Then both parts 1 and 2 are die cut at the same time as indicated by box 50, and then the ID card is placed in the part 1 die cutout 22 as indicated at box 51 in FIGURE 6. Then the variable printing and mailing steps are the same as indicated in FIGURE 5.

FIGURES 1 and 2 also show the printing that is applied at stage 46. The printing applied to the top face 25 may be as illustrated at 53 in FIGURE 1, while the duplex (backside) printing is illustrated at 54 in FIGURE 2.

FIGURES 7 and 8 illustrate a second embodiment according to the present invention. In the second embodiment the construction of the backing is

different. In the embodiment of FIGURES 7 and 8, a release coat like the release coat 40 illustrated in FIGURE 4 is not necessary, since only one sheet needs to be die cut. Also, because of the particular construction of the backing the costs for paper adhesive may be substantially reduced and also the areas on the face of the coupon, or the like, since they do not have the double thickness.

In the FIGURES 7 and 8 embodiment components comparable to those in the FIGURES 1 through 3 embodiment are shown by the same reference numeral only preceded by a "1".

In the construction of FIGURES 7 and 8, the backing comprises first and second pieces (strips) of tape illustrated schematically at reference numerals 60, 61 in FIGURE 7, only the strip 61 being seen in FIGURE 8. Each strip 60, 61 comprises a substrate 62 with readily releasable (e.g., repositionable) adhesive 63 on the bottom face thereof. The strips 60, 61 are applied so that they overlap both longitudinal edges 120 (and a small part of the transverse edges 121) of the cutout 122 formed in the first sheet 111, so that the adhesive 63 thereon will engage the bottom face 135 of the card 119 and hold it in place. The adhesive 63 also holds the substrate 62 of the pieces of tape 60, 61 to other portions of the bottom face 113 of the first sheet 111.

While the form 110 of FIGURES 7 and 8 does have some nonuniformity of thickness, it is not substantial enough -- because of the relatively thin nature of the strips of tape 60, 61 -- to significantly adversely affect printing, and because of the small size of the strips 60, 61 compared to the FIGURES 1 through 3 embodiment, the cost can be significantly less. Also, indicia like the indicia 65 illustrated in FIGURE 1, if provided on the top face 112 of the first sheet 111, can form a reply element, commercial coupon, or the like, and perforations or other like lines of weakness (not shown) can be formed in the sheet 111 to facilitate detachment of a portion thereof with the indicia (e.g., 65) thereon. The form 110 of FIGURES 7 and 8 is used in the same manner as the form 10, e.g., being passed through a variable printer, etc.

It will thus be seen that according to the present invention an advantageous business form mounting an ID card or the like, and a method of manufacture and utilization thereof, have been provided. While the invention has been herein shown and described in what is presently conceived to be the most practical and preferred embodiment thereof, it will be apparent to those of ordinary skill in the art that many modifications may be made within the scope of the invention, which scope is to be accorded the broadest interpretation of the appended claim so as to encompass all equivalent structures and procedures.

## Claims

1. A business form (10) comprising:
  - a first sheet (11) having top and bottom faces (12, 13);
  - means defining a first cutout (22) in said first sheet having a substantially quadrate configuration with first length and width dimensions (20, 21), and a first thickness;
  - a card (19) having a substantially quadrate configuration with given second length and width dimensions (23, 24), slightly less than said respective first length and width dimensions, and having a thickness substantially the same as said first thickness;
  - said card disposed in said first cutout and having top and bottom faces (25, 35);
  - a backing (27, 60, 61) overlapping at least part of said first cutout on the bottom face of said first sheet, said backing having a top face (28) facing said cutout, and a bottom face (29) facing away from said cutout; and
  - readily releasable adhesive (36), which will readily release said card, disposed on said top face (28) of said backing overlapping said cutout, so that said card is held in said cutout by said readily releasable adhesive with said card top face (25) substantially flush with said first sheet top face (12).
2. A business form as recited in claim 1 characterised in that said backing includes or consists solely of first and second, preferably parallel, pieces of tape (60, 61) having adhesive (63) disposed on substantially the entire top face thereof, and overlapping different portions of said first cutout.
3. A business form as recited in claim 1 characterised in that said backing comprises a second sheet (27), said second sheet having a second cutout therein in substantial alignment with said first cutout, said second cutout having third length and width dimensions (31, 32) at least one of which is significantly less than said first dimensions (20, 21), so as to provide a portion (34) of said second sheet overlapping said first sheet at said first cutout; said readily releasable adhesive (36) disposed on said overlapping portion of said second sheet.
4. A business form as recited in claim 3 characterised in that both said third length and width dimensions (31, 32) are less than said first dimensions (20, 21), so that said overlapping portion of said second sheet comprises a generally quadrate frame (34).
5. A business form as recited in claim 3 or claim 4 characterised in that said adhesive (36) holds said first and second sheets (11, 27) laminated together along the majority of said bottom and top faces thereof, respectively.
6. A business form as recited in any of claims 1 to 5 characterised in that said card comprises an ID card having indicia imaged on said top face or both the top and bottom faces.
7. A business form as recited in any of claims 1 to 6 characterised in that said first sheet (11) is paper, and said card (19) consists essentially of paper or plastic.
8. A method of producing a business form from a first sheet and backing, each having top and bottom faces, comprising the steps of:
  - (a) making a first quadrate die cut opening in the first sheet, having first length and width dimensions;
  - (b) applying repositionable adhesive to the top face of at least a portion of the backing;
  - (c) providing the backing in juxtaposition to the first sheet so that a portion of the backing having repositionable adhesive overlaps the bottom face of the first sheet at the first die cut opening; and
  - (d) inserting a quadrate card having top and bottom face, and second length and width dimensions slightly less than the first length and width dimensions, in the first quadrate die cut opening, so that the card is held in the opening by the repositionable adhesive.
9. A method as recited in claim 8 characterised in that the backing is a second sheet, and comprising the further step of forming a second die cut opening in the second sheet having third length and width dimensions one or both of which is/are less than the corresponding first length and width dimension; and wherein step (c) is practiced by substantially aligning the centers of the first and second die cut openings.
10. A method as recited in claim 8 characterised in that the backing comprises first and second strips of tape; and wherein step (c) is practiced by placing the first and second strips of tape, preferably parallel to one another, into contact with the bottom face of the first sheet so that portions of the top face of the tape pieces overlaps different edges of the first die cut opening.
11. A method as recited in any of claims 8 to 11 characterised in that the card has approximately the same thickness as the first sheet; and wherein



step (d) is practiced so as to position the card so that a top face thereof is substantially flush with the top face of the first sheet.

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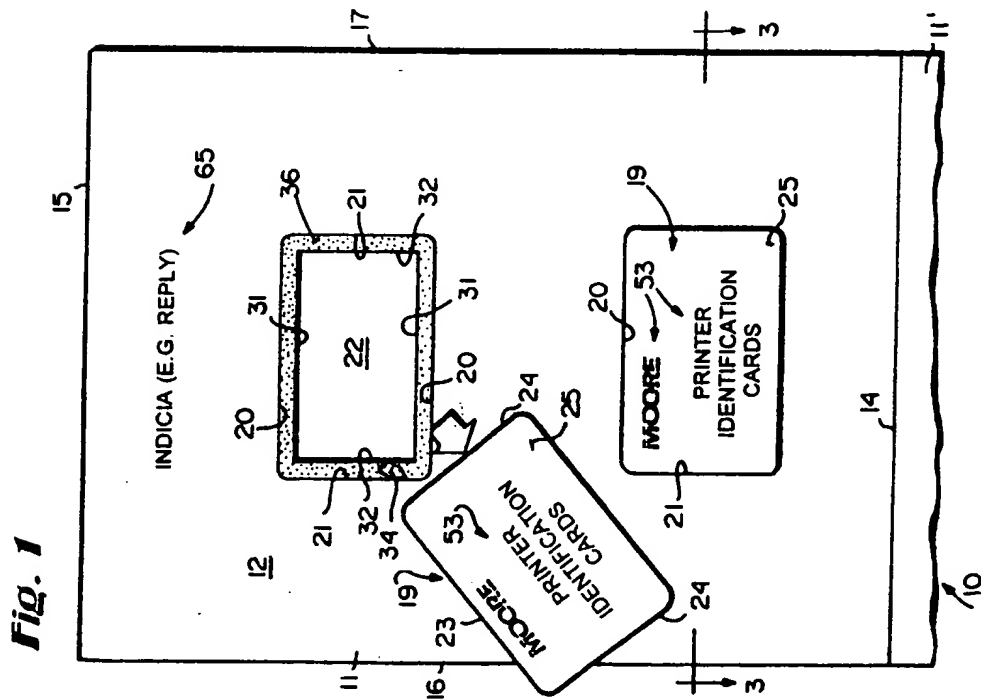
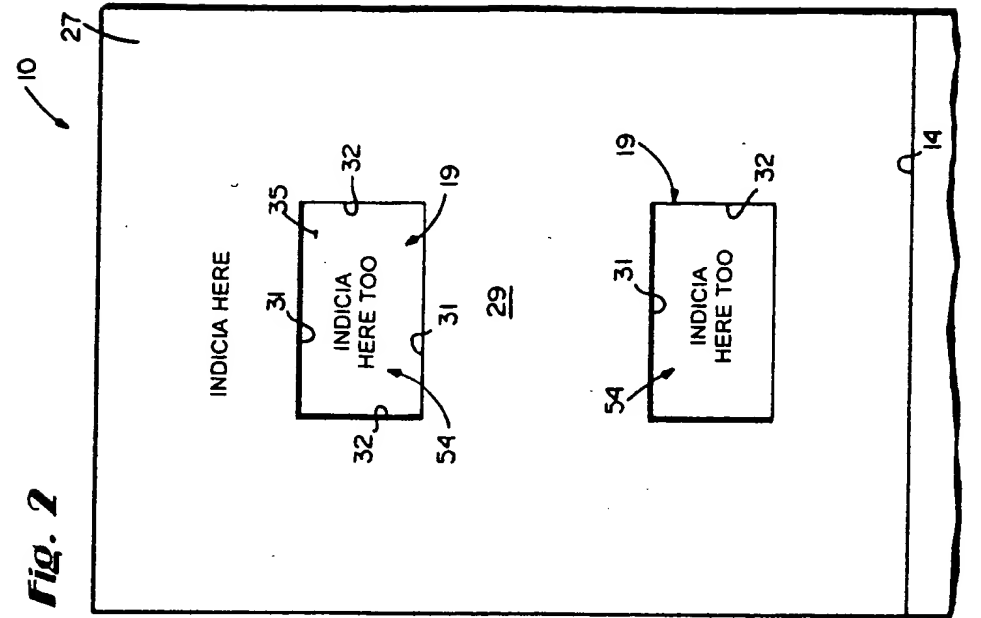
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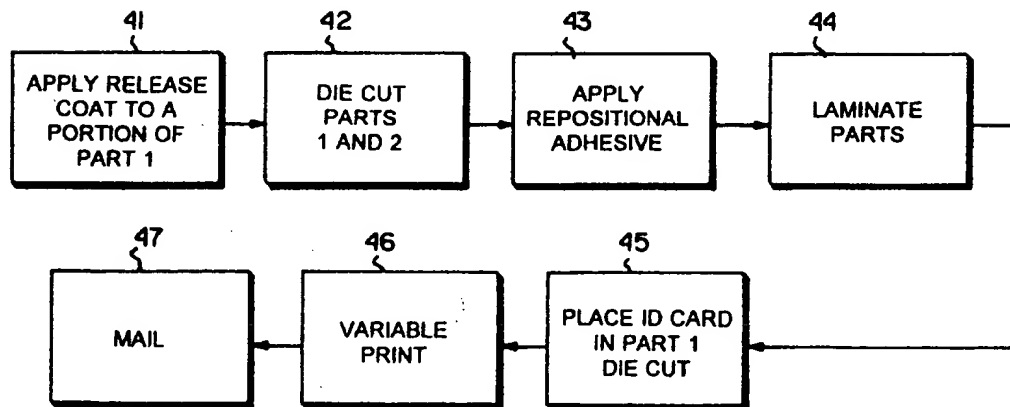
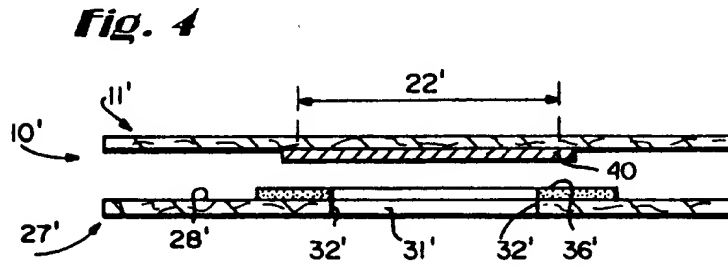
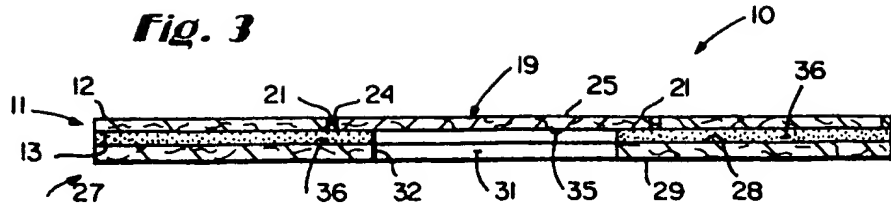
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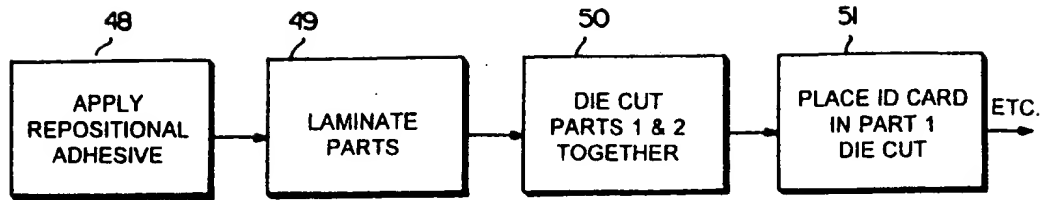
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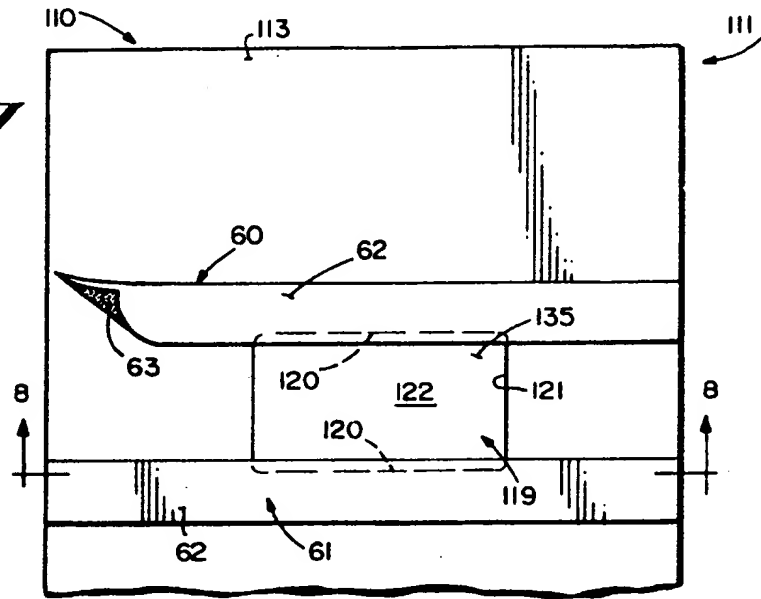


**Fig. 5**

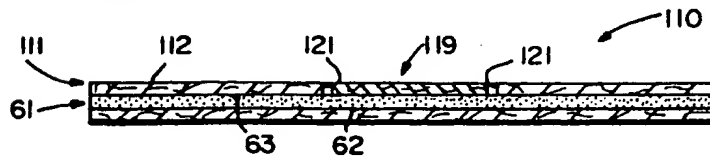
**Fig. 6**



**Fig. 7**



**Fig. 8**





European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 94 30 1561

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
A	US-A-5 129 682 (ASHBY) * the whole document *	1,8	B42D5/02
A	DE-A-40 35 095 (MOORE BUSINESS FORMS) * the whole document *	1,8	
A	EP-A-0 327 754 (BERTEK) * the whole document *	1,8	
The present search report has been drawn up for all claims			<b>TECHNICAL FIELDS SEARCHED (Int.Cl.5)</b>  B42D G09F
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>17 June 1994</b>	Examiner <b>Evans, A</b>
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 (01.92) (P04.C01)